MTA1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MTA1, Polyclonal Antibody
Full Product Name	MTA1
Product Gene Name	anti-MTA1 antibody
Product Synonym Names	Purified Rabbit Anti Human MTA1 Polyclonal antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human Predicted: Rat, Mouse
Form/Format	Already dissolved in sterile H2O with 1% BSA and 0.02% NaN3 and 50% Glycerol.
Purity/Purification	Purified By Antigen Affinity Column
Molecular Weight	49KD
OMIM	603526
3D Structure	ModBase 3D Structure for Q13330
Immunogen	Recombinant fragment corresponding to 432-449aa of human MTA1.
Cellular Localization	Cytoplasm, Cytoskeleton, Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MTA1 antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-MTA1 antibody	ELISA: 1:20000-80000 WB: 1:200-1,000 IHC: 1:100-500
Related Product Information for anti-MTA1 antibody	MBS8564473 is an antibody targeting MTA1. Reactive in Human Predicted: Rat, Mouse. Host: Rabbit. Homo sapiens metastasis associated 1 (MTA1), transcript variant 1, mRNA
Product References and Citations for anti-MTA1 antibody	Ma K, Fan Y, Dong X. et al. MTA1 promotes epithelial to mesenchymal transition and metastasis in non-small-cell lung cancer. Oncotarget. 8 (24):38825 (2017)
Other Notes	Small volumes of anti-MTA1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MTA1. It may not necessarily be applicable to this product.

NCBI GI #	115527080
NCBI GeneID	9112
UniProt Primary Accession #	Q13330

UniProt Related Accession #	Q13330
GenBank Nucleotide #	NM_004689
NCBI Official Full Name	metastasis-associated protein MTA1 isoform MTA1
NCBI Official Synonym Full Names	metastasis associated 1
NCBI Official Symbol	MTA1
UniProt Protein Name	Metastasis-associated protein MTA1
Protein Family	Mating type protein
UniProt Gene Name	MTA1
UniProt Entry Name	MTA1_HUMAN
NCBI Protein Information	metastasis-associated protein MTA1
NCBI Summary for MTA1	This gene encodes a protein that was identified in a screen for genes expressed in metastatic cells, specifically, mammary adenocarcinoma cell lines. Expression of this gene has been correlated with the metastatic potential of at least two types of carcinomas although it is also expressed in many normal tissues. The role it plays in metastasis is unclear. It was initially thought to be the 70kD component of a nucleosome remodeling deacetylase complex, NuRD, but it is more likely that this component is a different but very similar protein. These two proteins are so closely related, though, that they share the same types of domains. These domains include two DNA binding domains, a dimerization domain, and a domain commonly found in proteins that methylate DNA. The profile and activity of this gene product suggest that it is involved in regulating transcription and that this may be accomplished by chromatin remodeling. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2011]
UniProt Comments for MTA1	MTA1: metastasis-associated protein. A component of the NuRD ATP-dependent chromatin remodeling and histone deacetylase complex. Interacts with HDAC1. Expressed at high levels in metastatic cells. Two alternatively spliced isoforms have been described. The long isoform is a co-repressor of estrogen receptor (ER). The short isoform binds to ER and sequesters it in the cytoplasm and enhances non-genomic responses of ER. Protein type: Nuclear receptor co-regulator; Transcription, coactivator/corepressor; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 14q32.3 Cellular Component: nucleoplasm; microtubule; intracellular membrane-bound organelle; cytoplasm; nuclear envelope; NuRD complex; nucleus Molecular Function: protein binding; zinc ion binding; transcription coactivator activity; chromatin binding; transcription factor activity; transcription corepressor activity Biological Process: proteasomal ubiquitin-dependent protein catabolic process; locomotor rhythm; establishment and/or maintenance of chromatin architecture; transcription, DNA-dependent; regulation of transcription, DNA-dependent; double-strand break repair; regulation of inflammatory response; response to lipopolysaccharide; circadian regulation of gene expression; response to ionizing radiation; signal transduction; regulation of gene expression, epigenetic; entrainment of circadian clock by photoperiod
Research Articles on MTA1	**1.** Overexpression of MTA1 contributed to EC tumor growth, while knockdown of MTA1 resulted in tumor growth inhibition.
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